

Department of Public Works and Transportation

DIVISION OF SOLID WASTE SERVICES



Digger at Silver Spring Holiday Parade

MONTHLY REPORT

DECEMBER 1999



Printed on Recycled and Recyclable Paper

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OVERVIEW

Tonnage at a Glance

The following table shows key material flows during the current month, during the fiscal years to date (FY Total), and during the current calendar month in the two prior fiscal years. (County fiscal year 2000 began July 1, 1999.)

FACILITY	Dec FY 00	FY 00 Total	Dec FY 99	Dec FY 98
Materials Recycling Facility ⁽¹⁾	5,975 Tons	30, 332 Tons	5,590 Tons	5,131 Tons
Brunswick Landfill Facility	10,990 Tons	71,821 Tons	13,888 Tons	11,957 Tons
American Ash Recycling ⁽²⁾	2,994 Tons	18,058 Tons	N/A	N/A
Resource Recovery Facility ⁽³⁾	40,707 Tons	249,558 Tons	35,586 Tons	37,018 Tons
Yard Trim Compost Facility	13,149 Tons	40,668 Tons	13,676 Tons	15,424 Tons

⁽¹⁾For FY00, MRF tons reported are outgoing. For previous years, incoming was reported.

⁽²⁾Tons shipped out to ash recycling facility during the indicated period. All tons so shipped are recycled.

⁽³⁾RRF tonnage refers to tons burned (processed). Waste shipped from the Transfer Station but not burned is in the pit and is not included in the tonnage presented here. For FY00, these tonnages are preliminary, with adjustments made in the December and June monthly reports.

Revenue Analysis and Systems Evaluation

All Program Managers were trained in fixed assets management and worked on mid-year fixed assets review. Completed research on MRF access fee for paper, coordinated with Council staff and drafted associated temporary and final executive regulations, fiscal note, and required transmittals, to eliminate the fee for second half of FY00. Prepared spreadsheet summarizing Solid Waste System Benefit Charge calculation for FY00 and presented to SWAC. Completed final draft of FY99 Recycling Rate Calculation Report including text and incorporating comments. Drafted Program Measures per new OMB guidelines. Prepared tonnage report for DSWs monthly report and web posting. Mailed revised forms and reporting reminders to licensed waste collectors. Revised report forms used to collect recycling information from self-

hauling generators and processors. Began developing Access database for entering and managing hauler report data. Variable rate study: drafted preliminary text for sections of report defining detailed options, framing evaluation issues, and indicating findings to date.

CITIZEN COMMITTEES

Facilities Implementation Group (FIG)- No FIG meeting was held in December. The next meeting is scheduled for January 18, 2000.

Solid Waste Facilities Master Plan- SCS completed drafts of the Analysis of Facility Traffic and Transportation Demand Management Program in February 1999, and they will be distributed for comment to FIG. The groundwater monitoring base maps are complete, and monitoring of groundwater and well water continues. An outline of the traffic safety training for facility contractors will be distributed to FIG.

Solid Waste Advisory Committee - SWAC met on December 7 at the Executive Office Building. The committee was briefed on the Systems Benefit Charge. SWAC also received updated information on the Mixed Paper Contract.

COLLECTIONS

Refuse - The month's refuse collections were normal with no disruptions to the scheduled work.

Recycling - All the preparations are complete for the next expansion of the Mixed Paper Program. The Director's letter to all the homes in Areas 6 and 10 has been mailed and the door hanging will proceed during the week of January 17, 2000. The program itself will start on Monday, January 24, 2000.

Contractor Performance - Only four complaints were not resolved by the contractors. The County corrected all four complaints. The number of complaints received this month totaled 262. This represents a 38.2% reduction from last year, which had a total of 424 complaints.

Enforcement Actions - Nine tickets were written in the amount of \$5,750 for violations of County solid waste laws.

Customer Service - Over 4,675 incoming calls were handled with over 367 follow-up calls (as a quality control check) by the Customer Service Staff. Also, 763 bins were delivered.

Volunteer Activities - Master Recycler/Composter program volunteers contributed 165 hours of service and reached approximately 7,767 residents. The volunteers handled 389 calls to the Recycling Hotline with an additional 162 calls coming into the hotline answering machine. Mixed paper issues (23.5%) and residential questions (19.53%) were the leading topics of discussion. The Volunteer activities included a Household Hazardous Waste collection at Shady Grove and the annual Montgomery County Holiday Parade in Silver Spring.

WASTE MINIMIZATION

Drop-off Programs - A new Neighborhood Mulch Preserve site was set up at the Colesville Maintenance Depot on Cape May Road, just off New Hampshire Avenue. The site will be open seven days a week, daylight hours only. Research on pallet recycling continues. An IFB for textile recycling was sent to Procurement. Plans to have the Free-rides program again this spring are underway.

Department of Environmental Protection's Home Composting and Source Reduction Activities - Met with Forest Oak Middle School and MCPS representatives to discuss a joint grant proposal for the Chesapeake Bay Foundation to develop a full-range outdoor environmental education area, including large-scale worm composting, in-classroom worm composting, compost demonstration garden, mulching displays, and garden areas dedicated to reclaiming turf in favor of natural landscaping materials.

Assisted with initial development of resident survey pertaining to yard trim recycling methods, media impact tracking, etc.

Ongoing website development.

HAZARDOUS WASTE PROGRAMS

Household Hazardous Waste Collection- One HHW event was conducted in December at the Transfer Station which served 716 patrons.

There were 27 walk-ins in November and 34 walk-ins in December. Walk-ins are citizens who come to the Transfer Station on non-event days with household hazardous waste to drop off.

Small Quantity Generator (Ecowise) Program- One Ecowise event was held in December. Eight companies attended.

AIR PERMITS AND ENVIRONMENTAL PROGRAMS

Resource Recovery Facility – CEM Tracking of RRF Operations – In December, the Continuous Emissions Monitoring System (CEM) indicated that units 1 and 2 have been operating continuously throughout the month. There were no equipment malfunctions in December that affected plant operations or stack emissions.

Results from the 1999 annual stack emissions tests conducted in November 1999 are expected by the middle of January 2000.

Oaks Landfill Energy Recovery Facility: Leachate Evaporation Technology

– The Leachate Thermal Treatment System (LTTS) was shut down on December 1 from 8:30AM to 10:30AM due to a frozen gas line. The system was restarted at 10:30AM and operated until December 2 when the leachate pumping was stopped due to leaks. Repairs and replacements were completed by December 6 and the system was started again. During the repair period, the flare continued to operate. The leachate pumping was again stopped on December 11-12 and restarted on December 13. The facility has been evaporating leachate at the rate of six to nine gallons per minute utilizing 1,800 cubic feet per minute (CFM) of landfill gas. The average methane concentration remains at 50% with oxygen levels of approximately 1%. Leachate pumping was again stopped on December 27 because the ceramic coating was not holding. During the first week of January, the contractor plans to reinsulate parts of the flare, install stainless steel frames and then spray ceramic coating. The flare continues to operate during this period.

Yard Trim Composting Facility – The Consent Agreement is still with the Maryland Department of Environment (MDE). The Agency expects to finalize the document in January. Results from the sixth wet sampling event conducted in November were received during the last week of December. There were no exceedances of BOD or TSS permit limits. The sampling program will continue through the end of May 2000. The Contractor (ENSR) is expected to submit a draft report by the end of July 2000. DSWS plans to meet with MDE in September 2000 to discuss the results of the program.

Contractual Work - DSWS completed review of the pre-draft submitted by ENSR on the RRF Non-Air Media Ambient Sampling Program, and transmitted comments to the Contractor. A draft report from ENSR is expected by the middle of January. ENSR continues work on RRF Ambient Air Sampling Report, Cumulative Impact Study and Epidemiological Study. The following draft reports will be available for distribution to FIG in January.

1. The winter 1999 Water Quality Sampling Program conducted at the Montgomery County Yard Trim Composting Facility (YTCF).
2. Updated Dispersion and Deposition Modeling Analysis for the RRF.
3. Review of RRF Non-air media sampling results and ENSR's recommendations.

RECYCLING

Public Outreach - The Year 2000 calendar has been completed and is being distributed to all single-family households, all condominium households, and all businesses via mail. All apartment complexes are being provided with enough copies for all apartment units, and asked to distribute. The calendar is an encapsulated resource covering all the sectors on recycling, waste reduction and buying recycled. This is the first of an annual information piece. The total cost of producing and printing the calendar is 44 cents per calendar. Postage is 16 cents per calendar. The comprehensive outreach campaign on recycling (including radio spots, TV spots, transit ads and print ads) continues to run. The results from the focus group sessions conducted are being used to determine and pursue ways to increase participation in the mixed paper recycling program.

The SORRT awareness campaign continues. Response has been strong. Calls regarding business recycling and the SORRT Program have increased since the campaign began. The campaign includes a 30-second TV advertisement, two 60-second radio spots, transit advertisements and print advertisements.

Commercial Recycling and Waste Reduction- Site visits and on-site consultations continued during the month of December. Staff sent out reminder notifications and annual report forms and instructions to over 700 businesses and organizations. Annual Reports are due on February 1 and March 1 from large and medium-sized organizations, respectively. Staff consistently is working with the MCPS System in support of their rejuvenated recycling program. Two staff members are working full-time on recycling in the public schools. Many materials are being printed and provided to the schools administrators, teachers and building services staff. In addition, staff has an aggressive schedule to meet with and train school recycling coordinators and involve staff of each school, using the school cluster system. The media campaign continued to get positive feedback, and the Division has received requests from some businesses to join the SORRT Program.

Multi-Family Recycling- The T.R.R.A.C. (Think Reduce and Recycle at Apartments and Condominiums) Program is under development. This program is being established to help support the property management companies as

well as motivate the residents to recycle more and more efficiently as we work toward our goal of recycling 50%. Through this program, a newsletter, seminars, and an awards program will be provided to motivate and assist the properties. The Division continues to conduct a bin effectiveness study, which seems to be showing some promise toward determining if blue bins are indeed effective in multi-family dwellings.

Mixed Paper Recycling- Troubleshooting real or perceived issues hindering curbside recycling of mixed paper is in progress. Results of the three focus group sessions are being evaluated and new outreach initiatives will be developed, produced, distributed and used.

FACILITY ACTIVITIES

Yard Trim Compost Facility - Phase I of the pilot for tubgrinding of screening rejects is in progress but there was no site activity in December. Phase 1 allows for grinding of material from the 1998 batch (contains no storm debris). Phase 2, the grinding of the 1999 batch containing storm debris, requires additional approval from Sugarloaf Citizens Association before proceeding. There is currently 10,102 cubic yards (cy) of debris on site (6,942 cy of 1999 and 3,160 cy of 1998)

Leafhaul is complete. Total tonnage of leaves is slightly lower than FY 98 and FY 99.

Bagging of Leafgro continues at the Transfer Station. In December 7,750 bags were produced.

In December, 13,149 tons of leaves were received for processing and 2,380 cubic yards of Leafgro were sold.

Resource Recovery Facility - Operations for the month generally consisted of two boilers operating at 100% capacity. Unit #3 was offline all month, undergoing routine maintenance; 40,707 tons of waste was processed at the Facility.

The Facility had no boiler or turbine outages during the month. The Y2K transition occurred without any problem.

The Facility sold 24,523 MWH during the month, for approximately \$650,000 in revenues.

CSX provided improved rail service, but several days were still unacceptable. CSX management has responded to letters with assurances they will begin to provide solutions early in January.

One thousand three hundred twenty-six (1,326) tons of yard material was shipped for the compost site by the rail system.

Approximately 2,994 tons of ash was shipped to the American Ash Recycling, Inc. facility in York, PA for recycling.

Mr. Steve Jenness, Ogden's Environmental Engineer for the Facility, was on-site for much of the month. There were no reportable air or water quality excursions during the month.

Ash characterization sampling was conducted December 9-16 in accordance with established protocol. Preliminary results indicated full compliance with TCLP requirements. The test report should be delivered in late January.

Water supply testing results were submitted to MDE.

CEM software (installed to complete the Y2K upgrades) is working properly and reports are being generated as anticipated. The CD-ROM database is scheduled to be updated in early January.

One tour was given to an Israeli visitor.

Materials Recovery Facility- Approximately 3,143 tons of old newspaper; 1,719 tons of commingled material; and 1,114 tons of mixed paper were shipped out after processing at the Materials Recovery Facility (MRF) in December 1999.

Design drawings for the west wing expansion were initiated in December.

Construction continues, enabling increased paper storage and handling at the MRF. Modifications to the former yard waste building to provide push walls and enclose the facility were completed.

Oaks Landfill- The contractor for the Phase II closure construction, Barbella Environmental Technology, Inc., seeded and stabilized additional areas and began geomembrane installation in the last of five Phase II subareas. Work on gabion down chutes and drainage channels continues. Barbella is approximately 80% complete with the Phase II work (about 65 acres on the eastern side of the landfill).

Cherry Hill Construction, the contractor for the Phase I closure construction (about 68 acres on the western side of the landfill) completed placing soil cover

and performing initial seeding in the first two subareas of Phase I (about 28 acres). Cherry Hill shut down for winter at the end of December except for minimal work to complete a gabion down chute. Cherry Hill is approximately 40% complete with the Phase I work.

SCS Field Services continues work on the methane migration problem identified on the northern side of the landfill. Two new extraction wells to reduce methane migration were activated in early December. In addition, well heads that were installed under Phase II construction were activated. These efforts reduced the concentration of methane at most of the affected monitoring wells. DSWS and SCS Field Services are currently evaluating the need for additional extraction wells. All information and field data is being shared with DEP.

Transfer Station- During December, Ogden Martin shipped via rail 41,567 tons of processible waste from the Transfer Station to the Resource Recovery Facility; 4,100 more tons than shipped in December 1998.

MES collected litter along Shady Grove Road from Route 355 to the intersection with Muncaster Mill Road.

The reinforced concrete work and structural steel for the DOT Type Nonprocessible Waste facility is complete. Completion of the roof and siding is delayed pending negotiation of a change order addressing minor changes to the roof and gutter design.

Atlantic Builders Group, Inc., has been selected to construct additional Master Plan improvements. These improvements will include the separation and expansion of the recycling drop-off area, new road construction and a yard waste load out area. A contract to initiate this work will be executed in January.

Site 2 Property Management - DFS is following maintenance schedules for the properties. Winterizing the Chiswell farmhouse is continuing. A renovation plan is being developed through one of DFS's contractors.

Out-of-County Haul

Brunswick County, Virginia - During the month of December, about 8,493 tons of ash residue and 2,496 tons of nonprocessible waste were transported to the County's dedicated disposal cell at the Brunswick Waste Management Facility, Inc. Landfill in Brunswick County, VA. One hundred twenty-seven (127) tons of dirt, rock and wood were recycled at Clean Rock in Hagerstown, MD. A few loads of oversize wood waste are being sent to Clean Rock on a trial basis. Clean Rock intends to work with local firewood companies to process the material.

York, Pennsylvania - During the month of December, 2,994 tons of ash residue (back hauled by rail from the RRF) were shipped from the Transfer Station to American Ash Recycling in York, PA to be recycled into aggregate.

Linden Farm Renovations - The project is substantially complete but some items remain unfinished. Remaining construction activities, managed by DFS, are in progress.

Phase I of the plantings to screen the Compost Facility from the Linden Farm is complete. The County and Sugarloaf are working with a landscape design firm to complete design of Phase II this fall.

GENERAL INFORMATION

Important Telephone Numbers

General information on solid waste- 240/777-6400

Customer Service- 240/777-6410

Recycling Hotline- 301/590-0046 (Hours of operation: Mon. - Fri., 1:00 - 4:00 PM)

Transfer Station- 301/840-2370

Materials Recovery Facility- 301/417-1447- Maryland Environmental Service

Resource Recovery Facility- 301/349-5685 County Office
301/916-3031 Ogden Martin Systems of Montgomery

Yard Trim Compost Facility- 301/428-8185

Internet for DSWS- www.dpwt.com, then click on Solid Waste Services

Note: All comments, questions, and suggestions on the contents of this report should be addressed to:

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SOLID WASTE FACTS IN A NUTSHELL

<i>TOPIC OR FACILITY</i>	
Current Recycling Rate in Montgomery County	36%
Recycling Goal by 2000	50%
New Recycling Programs Scheduled for FY 00	Implementation of Residential Mixed Paper Collection March 1999- Textile Recycling Pilot began
Resource Recovery Facility (RRF)	Guaranteed Capacity = 85% of 1800 tpd on an annual basis (558,450 tons/yr).
Yard Trim Composting Facility (DCF)	Operations Limited to Receipt of 77,000 tons/year under Sugarloaf Settlement Agreement. FY 98 tons received- 59,144
# Residences receiving trash collection by County contractors	82,599
# Residences receiving collection of recyclables in blue bins and yard waste collection	195,405
Term of out-of-county waste transportation and disposal contract with Brunswick Waste Management Facility, Inc.	June 19, 1997 through June 30, 2012 with an option for a five-year renewal. (Service started on October 20, 1997.)

GLOSSARY OF ACRONYMS

AAR	American Ash Recycling
APC	Air Pollution Control
ASME	American Society of Mechanical Engineers
BFI	Browning Ferris Industries
CEM	Continuous Emissions Monitoring
CIP	Capital Improvements Program
COG	Metropolitan Washington Council of Governments
CSX	Chesapeake Systems
DEP	Department of Environmental Protection
DFS	Division of Facilities and Services
DSWS	Division of Solid Waste Services
EPA	Environmental Protection Agency
FIG	Facilities Implementation Group
HCFA	Health Care Waste
IFB	Invitation For Bid
IRS	Internal Revenue Financing Administration
HHW	Household Hazardous Service
LTTS	Leachate Thermal Treatment System
MCPS	Montgomery County Public Schools
MDE	Maryland Department of Environment
MES	Maryland Environmental Service
MRF	Materials Recovery Facility
MWH	Mega Watt Hours
NPDES	National Pollution Discharge Elimination System
OMB	Office of Management and Budget
PEPCO	Potomac Electric Power Company
"Red Wiggler"	Handicap Adult Development Group
ROL	Reduced Operating Level
RRF	Resource Recovery Facility
SORRT	Smart Organizations Reduce and Recycle Tons
SWAC	Solid Waste Advisory Committee
TCLP	Toxic Characteristic Leaching Procedure
TPD	Tons Per Day
WM	Waste Management
YTCF	Yard Trim Composting Facility